

GROUP	NUMBER	
CAMPAIGN	18-01-003	
DATE	MODEL(S)	
JANUARY, 2018	IONIQ ELECTRIC (AE EV)	

SUBJECT:

CHARGING CONNECTOR LOCK/UNLOCK ACTUATOR REPLACEMENT (SERVICE CAMPAIGN T2T)

* IMPORTANT

*** Dealer Stock and Retail Vehicles ***

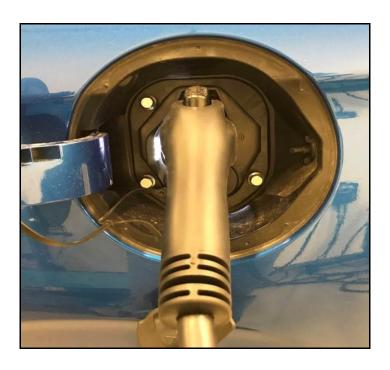
Dealers must perform this Service Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the Service Department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Description: Some Ioniq EV (AE EV) vehicles may experience the charging connector lock/unlock actuator malfunction, which may cause:

- The charging connector does not remain locked when the charger is inserted into the charging port.
- The charging connector cannot be removed from the vehicle charging port.

This bulletin provides the service procedure to replace the charging connector lock/unlock actuator.



Applicable Vehicles: Certain 2017 Ioniq Electric (AE EV)

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Parts Information:

PART NAME	PART NUMBER	PART IMAGE	QTY.
Inlet Actuator	91999-G7310QQH	NLET COMBO SP S 1999- G731000U 17116 031	1

Warranty Information:

MODEL	OP. CODE	OPERATION	OP. TIME	CAUSAL PART	NATURE	CAUSE
Ioniq Electric (AE EV)	70C095R0	INLET ACTUATOR REPLACEMENT	1.0 M/H	91886-G7600	Q57	ZZ3

NOTE 1: Submit Claim on Campaign Claim Entry Screen

NOTE 2: If a part is found in need of replacement while performing Service Campaign T2T and the affected part is still under warranty, submit a separate warranty claim using the same Repair Order. If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to performing the work.

TSB #: 18-01-003 Page 2 of 8

CHARGING CONNECTOR LOCK/UNLOCK ACTUATOR REPLACEMENT (SERVICE CAMPAIGN T2T)

Service Procedure:

CHARGING CONNECTOR LOCK/UNLOCK ACTUATOR REPLACEMENT

AWARNING

Be sure to read and follow the "General Safety Information and Caution" notice before doing any work related with the high voltage system. Failure to follow the safety guidelines may result in serious electrical injuries.

1. Align the vehicle onto the lift. Do not lift the vehicle up.



- 2. If applicable, record the customer's radio preset stations for AM/FM/XM.
- 3. Open charger door by pressing the release buttons on the dash.

Open tailgate by pressing the release buttons on the tailgate.

- 4. Pull hood release to open the hood to access the auxiliary battery.
- Disconnect the negative (-) cable on the auxiliary 12 V battery.

Negative battery terminal tightening torque: 3.0~4.4 lb-ft (4.0~6.0 Nm, 0.4~0.6 kgf.m)







TSB #: 18-01-003 Page 3 of 8

6. Remove the trunk covers.

Remove the safety plug cover by using a Phillips screwdriver to remove the clip located in the picture to the right.

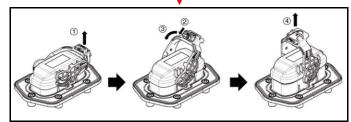


7. Wear insulated protective gloves and disconnect the high voltage safety plug by following the illustration steps shown to the right.

A CAUTION

Per the EV "General Safety Information and Caution Notice", wear insulated safety gloves when working on high voltage components that have an orange connector and cable color.





NOTE: Step 2 is pushing the yellow tab inward and then lift.

Ensure the insulated safety gloves are not expired by checking the stamped date on the gloves.

To order a new set of insulated safety gloves contact Bosch at 1-866-539-4248. Refer to the table on the right for the part number information.

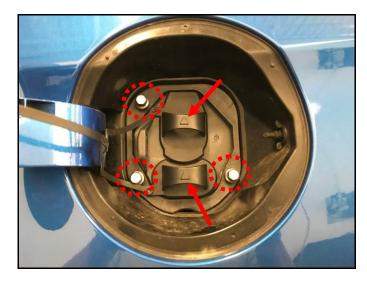
Refer to https://www.grainger.com/content/qt-electrical-safety-gloves-inspection-262 for electrical safety gloves inspection information.

Bosch Part Number	Description	Image
J-48755-11H	Insulated	
(Medium)	Leather Safety Gloves	W PROPERTY.
J-48755-12H (Large)	Insulated Leather Safety Gloves	

TSB #: 18-01-003 Page 4 of 8

- Wait 5 minutes to allow the high voltage battery capacitor to fully discharge.
- 9. Remove the three 10mm nuts holding the charger port and pull the charger port plugs.

Quick charging port mounting bolt tightening torque: 8.0~10.1 lb-ft (10.8~13.7 Nm, 1.1~1.4 kgf.m)



10. Lift the vehicle to comfortable working height.



11. Remove the rear driver's side wheel by removing the 5 lug nuts.

> Lug nut tightening torque: 79.6~94.0 lb-ft (107.9~127.5 Nm, 11.0~13.0 kgf.m)



TSB #: 18-01-003 Page 5 of 8 12. Remove the wheel well liner by removing the three types of fasteners located in the picture to the right.





13. Remove a 10mm bolt and a 10mm nut to loosen the charging wiring harnesses.

Quick charging port bracket mounting nut/bolt tightening torque: 7.2~8.7 lb-ft (9.8~11.8 Nm, 1.0~1.2 kgf.m)



Loosen the harnesses by pulling them out of the body mounting screws.



TSB #: 18-01-003 Page 6 of 8

SUBJECT: CHARGING CONNECTOR LOCK/UNLOCK ACTUATOR REPLACEMENT (SERVICE CAMPAIGN T2T)

14. Carefully pull the charging port away from the fender and wiggle downward to release the charging port.



15. Disconnect the connector from the charging lock/unlock actuator.



 Use a T15 Torx screwdriver to remove the two screws holding the charging lock/unlock actuator.



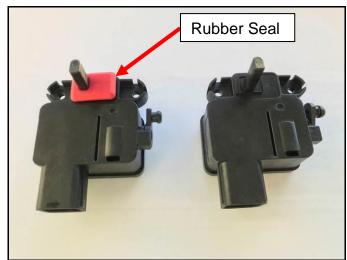
TSB #: 18-01-003 Page 7 of 8

17. Remove the cable from the charging lock/unlock actuator arm.

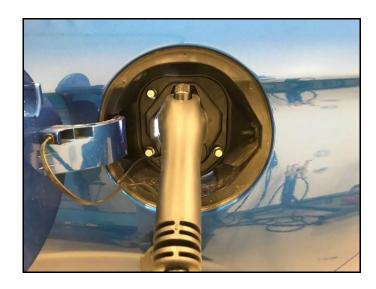


18. Remove the red rubber seal from the old part and place it onto the new part.

Replace the charging lock/unlock actuator with the new part.



- 19. Reinstall all removed parts in reverse order.
- 20. Confirm if the charging port locks/unlocks and if charging function is operating by checking the vehicle's charging status.



TSB #: 18-01-003 Page 8 of 8